

**545OneDrive2\_00017929**

United States Environmental Protection Agency Washington, DC 20460		Work Assignment Number 0-1 Amendment 6							
<b>Work Assignment</b>		[ ] Original [X] Amendment Number:							
Contract Number: EP-C-07-028	Contract Period Base	Title of Work Assignment: Comprehensive Gasoline Light Duty Exhaust Fuel Effects Test Program to Cover Multiple Fuel Properties and Two Ambient Test Temperatures							
Contractor		Specify Section and Paragraph of Contract SOW							
Purpose Work Assignment Initiation [ ] Work Assignment Close-Out [X] Work Assignment Amendment [ ] Incremental Funding [ ] Work Plan Approval		Periods of Performance From: Effective Date To: 06/27/08							
Comments: Amendment to WA 0-1 is an increase in scope covering a more rigorous specification of the test fuels and covering travel by the contractor to the subcontractor producing the fuel to correct potential problems in meeting the delivery of test fuels in a timely manner.									
[ ] Superfund		Accounting and Appropriations Data							
[ ] Non-Superfund									
Lin	DC (Max 6)	Budget FY (Max 5)	Appropriation Code (Max 4)	Budget Org/Code (Max 7)	Program Element (Max 6)	Object Class (Max 4)	Amount (Dollars) (Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1									
2									
3									
4									
5									
Authorized Work Assignment Ceiling									
Contract Period:		Cost/Fee		<b>Ex. 4 - CBI</b>					
This Action									
Total									
Contractor WP Dated:		Cost/Fee							
Cumulative Approved:		Cost/Fee							
Work Assignment Manager Constance Hart <i>Constance Hart</i> (Signature)				3/26/08 (Date)		BRANCH/MAIL Phone Number 734/214-4340 Fax Number 734/214-4939 Branch/Mail Code ASD Phone Number 734/214-4209 Fax Number 734/214-4939			
Project Officer Name Carl Scarbro <i>Carl Scarbro</i> (Signature)				3/26/08 (Date)		Branch/Mail Code Phone Number Fax Number			
Other Agency Official Name  (Signature)				(Date)		Branch/Mail Code Phone Number Fax Number			
Contracting Official Name: Tammy A Thomas <i>T. Thomas</i> (Signature)				3/27/08 (Date)		Branch/Mail Code CPOD Phone Number 513/487-2030 Fax Number 513/487-2109			
Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)						Date			

## **Performance Work Statement**

Contract EP-C-07-018	Work Assignment Number 01 Amendment 6
Issuing Office	Environmental Protection Agency 2000 Traverwood Drive Ann Arbor, MI 48105-2498
Contractor	Southwest Research Institute 6220 Culebra Rd. San Antonio, TX 78228-0510
Title	Comprehensive Gasoline Light Duty Exhaust Fuel Effects Test Program to Cover Multiple Fuel Properties and Two Ambient Test Temperatures

**The second paragraph of task 4 has been changed. All other items/tasks remain per amendment 5.**

### **Task 1: Work Plan Development**

Submit a revised cost estimate.

### **Task 4: Test Fuels and Lubricants**

The second paragraph of task 4 has been changed as follows:

The contractor shall procure and maintain all test fuels for this program. Detailed specification of these fuels is provided in Appendix A and Appendix A.1. It may be necessary for the contractor to visit the blending facility to make sure that the fuels blended will meet specifications in a timely manner.

## Appendix A.1

The following approach shall be done to achieving the desired distillation curve of fuel 18:

Follow the current distillation trace of fuel 18 up to T50.

Note: The segment of the curve between T40 and T50 may be shifted to the left, if that will make the fuel easier to blend.

Between T50 and T90 stay between the lines representing fuels 17 and 19 as shown in the attached graph.

Note: The graph is based on final blend data for fuel 17, and hand blend data for fuels 18 (IBP to T50) and 19. It has to be updated using bulk blend data. The actual data points used in the attached graph are provided in the table below.

Should this fuel be difficult to blend, relax the octane specification. If that proves insufficient, the contractor shall request guidance of the EPA WAM.

Attempt to correct the distillation curve of the current fuel 18 blend. If unsuccessful, develop a new formulation.

Table A.1-1 Target Distillation Temperatures

Item % evaporated	Fuel IDs		
	17	18	19
0	93	103	102
5	111	127	124
10	128	135	133
20	156	149	147
30	181	153	156
40	199	170	161
50	215	204	196
60	235	240	244
70	263	265	266
80	291	295	298
90	325	324	323
95	344		330
100	370		353

EPAct Test Fuels  
Distillation Data

